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USSR

Emphasis on Solar Corona Research

Sep 52

Sep 52 and earlier

May '53

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AKADEMII NAUK, SSSR

1. The following information is from a translation of ~~Journal~~ Doklady, Volume LXXXII, NO. 1 Page 25, 1952 written by the Soviet scientist A.B. Severnyy, 50X1 who gave it to another US scientist while at the International Astronomical Union Conference held in September 1952 at Rome, Italy, to deliver to the source. The title of an article from this publication is Principal Types of Movement in Solar Prominences. 50X1

2. Dr Severny, whose work thus far is theoretical, divided prominences into three types, depending on their motion. The first type is Eruptive Type, the second, Turbulent Type, and the third, Electromagnetic Type. Severny bases this division on the cause of the three types of motion. Examples are given of each type. These three classifications were arrived at by picture measurement which consisted of two kilometers of movie film. This film was taken in the Crimea. This operation required approximately 100 man-hour weeks for measurement only, excluding the study and the reduction. I have never heard of another case where this extent of time has been spent on measurement only.

3. According to this article, research in solar prominences is as far advanced in the USSR as in the US, and the amount of work spent on this one phase proves that the Soviets are placing a great deal of emphasis on research in the field of solar corona.

- end -

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